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LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	6	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	12	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	13	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	15	AUG 27	USPATOLD now available on STN
NEWS	16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	18	SEP 13	FORIS renamed to SOFIS
NEWS	19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	20	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
NEWS	21	SEP 17	CAPLUS coverage extended to include traditional medicine patents
NEWS	22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	23	OCT 02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	24	OCT 19	BEILSTEIN updated with new compounds
NEWS	25	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	26	NOV 19	WPIX enhanced with XML display format
NEWS	27	NOV 30	ICSD reloaded with enhancements
NEWS	28	DEC 04	LINPADOCDB now available on STN
NEWS EXPRESS	19	SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.	
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:21:45 ON 12 DEC 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'REGISTRY' ENTERED AT 11:22:40 ON 12 DEC 2007

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STRUCTURE FILE UPDATES: 11 DEC 2007 HIGHEST RN 957570-32-0

DICTIONARY FILE UPDATES: 11 DEC 2007 HIGHEST RN 957570-32-0

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

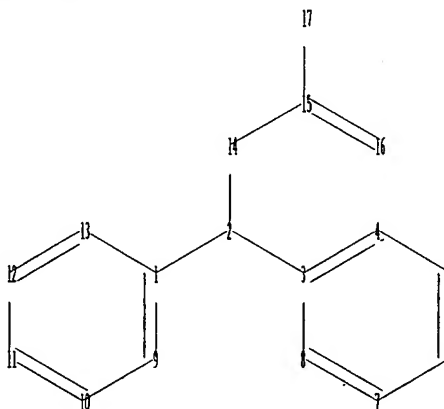
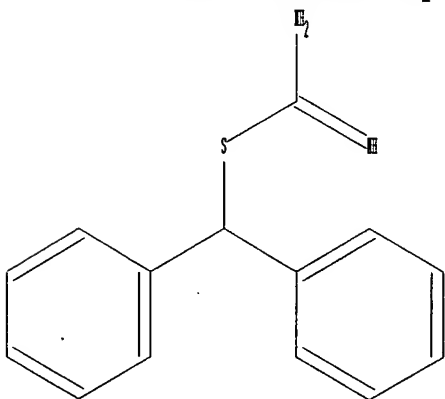
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10570243\10570243 key intermediate.str



chain nodes :

2 14 15 16 17

ring nodes :

1 3 4 5 6 7 8 9 10 11 12 13

chain bonds :  
 1-2 2-3 2-14 14-15 15-16 15-17  
 ring bonds :  
 1-9 1-13 3-4 3-8 4-5 5-6 6-7 7-8 9-10 10-11 11-12 12-13  
 exact/norm bonds :  
 2-14 14-15 15-16 15-17  
 exact bonds :  
 1-2 2-3  
 normalized bonds :  
 1-9 1-13 3-4 3-8 4-5 5-6 6-7 7-8 9-10 10-11 11-12 12-13

Match level :

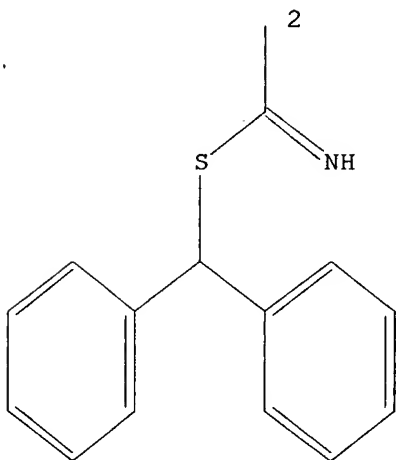
1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 11:23:20 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 33 TO 447

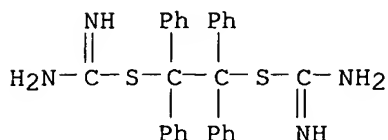
PROJECTED ANSWERS: '2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

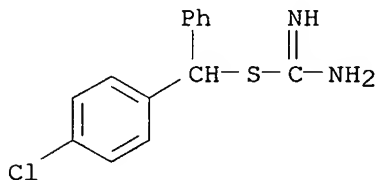
IN Pseudourea, 2,2'-(tetraphenylethylene)bis[2-thio- (7CI)  
MF C28 H26 N4 S2  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Carbamimidothioic acid, (4-chlorophenyl)phenylmethyl ester  
MF C14 H13 Cl N2 S  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.35

1.77

FILE 'CAPLUS' ENTERED AT 11:24:25 ON 12 DEC 2007

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FILE COVERS 1907 - 12 Dec 2007 VOL 147 ISS 25

FILE LAST UPDATED: 11 Dec 2007 (20071211/ED)

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They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> l2

L3 0 L2

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.47

2.24

FILE 'REGISTRY' ENTERED AT 11:24:56 ON 12 DEC 2007  
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DICTIONARY FILE UPDATES: 11 DEC 2007 HIGHEST RN 957570-32-0

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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d l2 1-2

L2 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN

RN 805944-17-6 REGISTRY

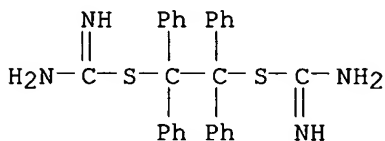
ED Entered STN: 30 Dec 2004

CN Pseudourea, 2,2'-(tetraphenylethylene)bis[2-thio- (7CI) (CA INDEX NAME)

MF C28 H26 N4 S2

CI COM

SR CA



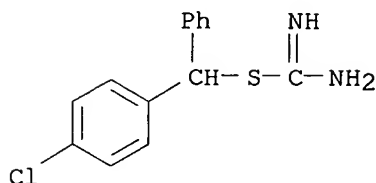
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN

RN 737715-07-0 REGISTRY

ED Entered STN: 02 Sep 2004

CN Carbamimidothioic acid, (4-chlorophenyl)phenylmethyl ester (CA INDEX NAME)  
 MF C14 H13 Cl N2 S  
 CI COM  
 SR CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> e modafinil/cn

E1	1	MODACRYLIC FIBERS, ACRYLONITRILE-VINYL CHLORIDE-VINYLLIDENE CHLORIDE POLYMERS/CN
E2	1	MODACRYLIC FIBERS, CARBOXY-CONTG./CN
E3	1 -->	MODAFINIL/CN
E4	1	MODAFINIL ACID/CN
E5	1	MODAFLOW/CN
E6	1	MODAFLOW 2000/CN
E7	1	MODAFLOW 2000, POLYMER WITH (CHLOROMETHYL)OXIRANE, 4,4'-(1-METHYLETHYLIDENE) BIS(PHENOL) AND NIKANOL GP/CN
E8	1	MODAFLOW 2000, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, (2E)-2-BUTENEDIOIC ACID, 2,2-DIMETHYL-1,3-PROPANEDIOL, 1,2-ETHANEDIOL, 2,5-FURANDIONE AND 2-METHYL-1-PROPENE/CN
E9	1	MODAFLOW 2000, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,3-BENZENEDIMETHANAMINE, 2,2-DIMETHYL-1,3-PROPANEDIOL, EPOMIK R 304 AND HEXANEDIOIC ACID/CN
E10	1	MODAFLOW 2000, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,3-BENZENEDIMETHANAMINE, 2,2-DIMETHYL-1,3-PROPANEDIOL, EPOMIK R 304, HEXANEDIOIC ACID AND 1,3,5-TRIS(OXIRANYLMETHYL)-1,3,5-TRIAZINE-2,4,6(1H)/CN
E11	2	MODAFLOW 2000, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,3-BENZENEDIMETHANAMINE, 2,2-DIMETHYL-1,3-PROPANEDIOL, EPOMIK R 304, HEXANEDIOIC ACID, ((1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXY)) BIS(PROPANO/CN
E12	1	MODAFLOW 2000, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,3-BENZENEDIMETHANAMINE, 2,2-DIMETHYL-1,3-PROPANEDIOL, EPOMIK R 304, HEXANEDIOIC ACID, 2,4,6-PYRIDINETRIAMINE AND 1,3,5-TRIS(OXIRANYLMETHYL)-/CN

=> e3

L4 1 MODAFINIL/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 68693-11-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Acetamide, 2-[(diphenylmethyl)sulfinyl]- (CA INDEX NAME)

OTHER NAMES:

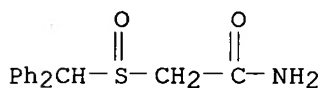
CN (±)-Modafinil

CN 2-(Benzhydrylsulfinyl)acetamide

CN CEP 1538

CN CRC 40476

CN CRL 40476  
 CN DEP 1538  
 CN Modafinil  
 CN Modaphonil  
 CN Modiodal  
 CN Provigil  
 DR 112111-49-6  
 MF C15 H15 N O2 S  
 CI COM  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 DDFU, DRUGU, EMBASE, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH,  
 IPA, MEDLINE, MRCK\*, PATDPASPC, PHAR, PROMT, PROUSDDR, PS, RTECS\*,  
 SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: WHO



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

481 REFERENCES IN FILE CA (1907 TO DATE)  
 7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 484 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e benzhyrol/cn

E1 1 BENZHYDRYLTRIPHENYLPHOSPHONIUM BROMIDE/CN  
 E2 1 BENZHYDRYLUREA/CN  
 E3 0 --> BENZHYROL/CN  
 E4 1 BENZIAZEM/CN  
 E5 1 BENZIDAMINE/CN  
 E6 1 BENZIDAMINE FLUFENAMATE (1:1)/CN  
 E7 1 BENZIDAMINE HYDROCHLORIDE/CN  
 E8 1 BENZIDAMINE SALICYLATE/CN  
 E9 1 BENZIDAZOL/CN  
 E10 1 BENZIDE-2,5-BIS(METHOXYCARBONYL)TEREPHTHALOYL CHLORIDE COPOLYMER/CN  
 E11 1 BENZIDENE COMPOUND WITH S-TRINITROBENZENE AND BENZENE (2:2:1)/CN  
 E12 1 BENZIDENE-4,4'-(PHENYLPHOSPHINYLDENE)DIPHTHALIC ANHYDRIDE POLYMER, SRU/CN

=> e benzhydrol/cn

E1 1 BENZHYDRO (DIPHENYLMETHANOL), THIOBENZOATE/CN  
 E2 1 BENZHYDROFLUMETHIAZIDE/CN  
 E3 1 --> BENZHYDROL/CN  
 E4 1 BENZHYDROL B-DIMETHYLAMINOETHYL ETHER HYDROCHLORIDE/CN  
 E5 1 BENZHYDROL DILITHIUM SALT/CN  
 E6 1 BENZHYDROL DIPOTASSIUM SALT/CN  
 E7 1 BENZHYDROL DISODIUM SALT/CN  
 E8 1 BENZHYDROL ETHER/CN  
 E9 1 BENZHYDROL GLUCURONIDE/CN  
 E10 1 BENZHYDROL IODOCALCIUM SALT/CN  
 E11 1 BENZHYDROL METHYL ETHER/CN  
 E12 1 BENZHYDROL, ((TRIFLUOROMETHYL)THIO)CARBAMATE/CN

=> e3

L5 1 BENZHYDROL/CN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 91-01-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzenemethanol,  $\alpha$ -phenyl- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzhydrol (8CI)

OTHER NAMES:

CN  $\alpha$ -Phenylbenzenemethanol

CN  $\alpha$ -Phenylbenzyl alcohol

CN Benzhydryl alcohol

CN Benzohydrol

CN Diphenylcarbinol

CN Diphenylmethanol

CN Diphenylmethyl alcohol

CN Hydroxydiphenylmethane

CN NSC 32150

MF C13 H12 O

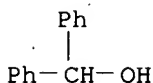
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM\*, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3271 REFERENCES IN FILE CA (1907 TO DATE)

45 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3289 REFERENCES IN FILE CAPLUS (1907 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e thiourea/cn

E1 1 THIOURACIL SODIUM SALT/CN

E2 1 THIOURANIC TRITHIOGLYCOLIC ACID/CN

E3 1 --> THIOUREA/CN

E4 1 THIOUREA COMPD. WITH 2,3-DIMETHYLBUTADIENE (3:1)/CN

E5 1 THIOUREA COMPD. WITH DIETHYL OXALATE (2:1)/CN

E6 1 THIOUREA COMPD. WITH NICKEL NITRATE (NI(NO3)2) (6:1)/CN

E7 1 THIOUREA COMPD. WITH ZINC PERCHLORATE (4:1)/CN

E8 1 THIOUREA COMPOUND WITH 2,2-DIMETHYLBUTANE/CN

E9 1 THIOUREA COMPOUND WITH AMMONIUM NITRATE (4:1)/CN

E10 1 THIOUREA COMPOUND WITH CADMIUM IODIDE (2:1)/CN

E11 1 THIOUREA COMPOUND WITH CARBON TETRACHLORIDE/CN

E12 1 THIOUREA COMPOUND WITH CHLOROFORM/CN

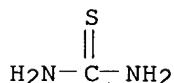
=> e3

L6 1 THIOUREA/CN



=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 62-56-6 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Thiourea (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Pseudourea (NH<sub>2</sub>.C(OH):NH), thio- (3CI)  
CN Pseudourea, 2-thio- (6CI, 7CI)  
CN Urea, thio- (8CI)  
OTHER NAMES:  
CN β-Thiopseudourea  
CN 2-Thiourea  
CN Isothiourea  
CN NSC 5033  
CN Pseudothiourea  
CN Thiocarbamide  
CN THU  
CN TsIZP 34  
MF C H4 N2 S  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM\*,  
DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*,  
HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA,  
PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT,  
USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

24783 REFERENCES IN FILE CA (1907 TO DATE)  
1724 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
24874 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	27.75	29.99

FILE 'CAPLUS' ENTERED AT 11:29:14 ON 12 DEC 2007  
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FILE COVERS 1907 - 12 Dec 2007 VOL 147 ISS 25  
FILE LAST UPDATED: 11 Dec 2007 (20071211/ED)

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They are available for your review at:

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=> dhis

L7 23 DHIS

=> d his

(FILE 'HOME' ENTERED AT 11:21:45 ON 12 DEC 2007)

FILE 'REGISTRY' ENTERED AT 11:22:40 ON 12 DEC 2007

L1 STRUCTURE UPLOADED

L2 2 SEARCH L1 SSS SAM

FILE 'CAPLUS' ENTERED AT 11:24:25 ON 12 DEC 2007

L3 0 L2

FILE 'REGISTRY' ENTERED AT 11:24:56 ON 12 DEC 2007

E MODAFINIL/CN

L4 1 E3

E BENZHYROL/CN

E BENZHYDROL/CN

L5 1 E3

E THIOUREA/CN

L6 1 E3

FILE 'CAPLUS' ENTERED AT 11:29:14 ON 12 DEC 2007

L7 23 DHIS

=> 14/prep

484 L4

4501150 PREP/RL

L8 39 L4/PREP

(L4 (L) PREP/RL)

=> 15

L9 3289 L5

=> 16

L10 24874 L6

=> 18 and 19

L11 15 L8 AND L9

=> 110 and 111

L12 5 L10 AND L11

=> d 112 1-5 ti fbib abs

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Process for preparing substituted sulfinyl acetamide

AN 2005:459993 CAPLUS  
 DN 143:153154  
 TI Process for preparing substituted sulfinyl acetamide  
 IN Wang, Lin; Jin, Yiguang; Li, Lu  
 PA Inst. of Radiation Medicine, Academy of Military Medical Sciences, Pla,  
 Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp. given  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1511829	A	20040714	CN 2002-159417 CN 2002-159417	20021231 20021231

OS CASREACT 143:153154  
 AB The present invention discloses the preparation of substituted sulfinyl  
 acetamide from substituted mercaptoacetonitrile by oxidation and hydrolysis.  
 Thus, stirring Ph<sub>2</sub>CHSCH<sub>2</sub>CN with 6% H<sub>2</sub>O<sub>2</sub> and aqueous NaOH in MeOH at room  
 temperature  
 for 24 h gave Ph<sub>2</sub>CHSOCH<sub>2</sub>CONH<sub>2</sub>.

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Process for preparing benzhydrylthioacetamide an intermediate in the  
 manufacture of modafinil  
 AN 2005:409471 CAPLUS  
 DN 142:463456  
 TI Process for preparing benzhydrylthioacetamide an intermediate in the  
 manufacture of modafinil  
 IN Liang, Sidney  
 PA Mallinckrodt Inc., USA  
 SO PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005042479	A1	20050512	WO 2004-US34975	20041022
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				US 2003-513779P	P 20031023
				US 2004-557331P	P 20040329
AU	2004285925	A1	20050512	AU 2004-285925	20041022
				US 2003-513779P	P 20031023
				US 2004-557331P	P 20040329
				WO 2004-US34975	W 20041022
CA	2543326	A1	20050512	CA 2004-2543326	20041022
				US 2003-513779P	P 20031023
				US 2004-557331P	P 20040329
				WO 2004-US34975	W 20041022
EP	1678129	A1	20060712	EP 2004-796038	20041022
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			US 2003-513779P	P	20031023
			US 2004-557331P	P	20040329
			WO 2004-US34975	W	20041022
CN 1871211	A	20061129	CN 2004-80031352		20041022
			US 2003-513779P	P	20031023
			US 2004-557331P	P	20040329
			WO 2004-US34975	W	20041022
JP 2007509161	T	20070412	JP 2006-536808		20041022
			US 2003-513779P	P	20031023
			US 2004-557331P	P	20040329
			WO 2004-US34975	W	20041022
MX 2006PA04403	A	20060706	MX 2006-PA4403		20060420
			US 2003-513779P	P	20031023
			US 2004-557331P	P	20040329
			WO 2004-US34975	W	20041022
IN 2006CN01383	A	20070706	IN 2006-CN1383		20060421
			US 2003-513779P	P	20031023
			WO 2004-US34975	W	20041022

OS CASREACT 142:463456

AB An process is described for preparing modafinil where benzhydrylthioacetate is prepared in high yield and purity by the reaction of a haloacetate ester with the reaction product of thiourea and benzhydrol. The reaction employing the haloacetate is conducted in a solvent comprising an organic solvent such as methanol having dissolved in it an organic base or an inorg. basic salt such as sodium bicarbonate. The resulting benzhydrylthioacetate can be amidated and then oxidized to provide the pharmaceutical grade modafinil in high yield and purity.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Preparation of diphenylmethylthioacetamide derivatives  
AN 2005:393425 CAPLUS  
DN 142:481831  
TI Preparation of diphenylmethylthioacetamide derivatives  
IN Lin, Shanliang  
PA Beijing Ruikang Medical Technology Co., Ltd., Peop. Rep. China  
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.  
CODEN: CNXXEV  
DT Patent  
LA Chinese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CN 1432565	A	20030730	CN 2002-100188	20020118
				CN 2002-100188	20020118

OS CASREACT 142:481831; MARPAT 142:481831

AB Title compds. R1R2CHSCH2CONR3R4 (R1, R2 = Ph, substituted Ph; R3, R4 = H, alkyl, etc.) are prepared by condensation reaction of R1R2CHOH with thiourea in the presence of acid and then substitution reaction with XCH2CONR3R4 (X = halo, 4-tolylsulfonyloxy, methylsulfonyloxy, etc) in solvent (water, methanol, alc., THF, etc) in the presence or absence of base at 25-120°.

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Improved process for preparing benzhydrylthioacetamide  
AN 2004:740125 CAPLUS  
DN 141:265963  
TI Improved process for preparing benzhydrylthioacetamide  
IN Liang, Sidney  
PA Mallinckrodt Inc., USA  
SO PCT Int. Appl., 16 pp.  
CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004075841	A2	20040910	WO 2004-US5265	20040223
	WO 2004075841	A3	20050407		
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	CA 2511992	A1	20040910	US 2003-449629P	P 20030224
				CA 2004-2511992	20040223
				US 2003-449629P	P 20030224
				WO 2004-US5265	W 20040223
	EP 1603867	A2	20051214	EP 2004-713742	20040223
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
				US 2003-449629P	P 20030224
				WO 2004-US5265	W 20040223
	CN 1753867	A	20060329	CN 2004-80005033	20040223
				US 2003-449629P	P 20030224
	JP 2006518754	T	20060817	JP 2006-503792	20040223
				US 2003-449629P	P 20030224
				WO 2004-US5265	W 20040223
	US 2006160903	A1	20060720	US 2005-537965	20050609
	US 7244865	B2	20070717		
				US 2003-449629P	P 20030224
				WO 2004-US5265	W 20040223
	MX 2005PA08088	A	20050921	MX 2005-PA8088	20050728
				US 2003-449629P	P 20030224
				WO 2004-US5265	W 20040223
	IN 2005CN02010	A	20070727	IN 2005-CN2010	20050823
				WO 2004-US5265	W 20040223

AB An improved process for preparing modafinil wherein benzhydrylthioacetamide is prepared in high yields and purity by the reaction of a haloacetamide with the reaction product of thiourea and benzhydrol in aqueous solution is disclosed. The reaction employing the haloacetamide is conducted in a solvent comprising water and an organic solvent such as DMF having dissolved therein a basic salt such as potassium carbonate. The resulting benzhydrylthioacetamide can be oxidized to provide the pharmaceutical modafinil.

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Process for the preparation of modafinil

AN 2003:950985 CAPLUS

DN 140:4859

TI Process for the preparation of modafinil

IN Largeau, Denis; Oddon, Gilles

PA Cephalon, Inc., USA

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003099774	A1	20031204	WO 2003-US16379	20030523
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RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
US 2004002547	A1	20040101	US 2003-443327 20030522
US 6875893	B2	20050405	
			US 2002-383173P P 20020523
CA 2486533	A1	20031204	CA 2003-2486533 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
AU 2003233668	A1	20031212	AU 2003-233668 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
EP 1506171	A1	20050216	EP 2003-729108 20030523
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
BR 2003011242	A	20050315	BR 2003-11242 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
CN 1656064	A	20050817	CN 2003-811838 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
JP 2005527623	T	20050915	JP 2004-507432 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
NZ 536747	A	20061130	NZ 2003-536747 20030523
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
IN 2004KN01695	A	20060728	IN 2004-KN1695 20041109
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
NO 2004004916	A	20041216	NO 2004-4916 20041111
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
MX 2004PA11459	A	20050214	MX 2004-PA11459 20041118
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-US16379 W 20030523
EG 23693	A	20070515	EG 2004-127 20041121
			US 2002-383173P P 20020523
			US 2003-443327 A 20030522
			WO 2003-EP16379 W 20030523
ZA 2004009400	A	20051005	ZA 2004-9400 20041122
			US 2002-383173P P 20020523
US 2005171209	A1	20050804	US 2005-91215 20050328
US 7057069	B2	20060606	

US 2002-383173P P 20020523  
US 2003-443327 A1 20030522

OS CASREACT 140:4859

AB Modafinil is prepared in high yield and selectivity by reacting benzhydrylthiol (which is prepared by the reaction of thiourea with benzhydrol, followed by base hydrolysis of the unisolated S-benzylhydrylthiouronium intermediate salt) and chloroacetamide to give 2-(benzhydrylthio)acetamide which is then oxidized to give modafinil [i.e., 2-[(diphenylmethyl)sulfinyl]acetamide].

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> save temp all modafsrch/l  
L# LIST L1-L12 HAS BEEN SAVED AS 'MODAFSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	27.10	57.09
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 11:40:54 ON 12 DEC 2007

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 12:45:00 ON 12 DEC 2007  
FILE 'CAPLUS' ENTERED AT 12:45:00 ON 12 DEC 2007  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	27.57	57.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

=> logoff hold

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FULL ESTIMATED COST	28.04	58.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 12:45:30 ON 12 DEC 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 13:23:13 ON 12 DEC 2007  
FILE 'CAPLUS' ENTERED AT 13:23:13 ON 12 DEC 2007  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	28.04	58.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

=> file casreact

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	ENTRY	SESSION
FULL ESTIMATED COST	28.51	58.50
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

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FILE CONTENT:1840 - 8 Dec 2007 VOL 147 ISS 25

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\* CASREACT now has more than 13.8 million reactions \*  
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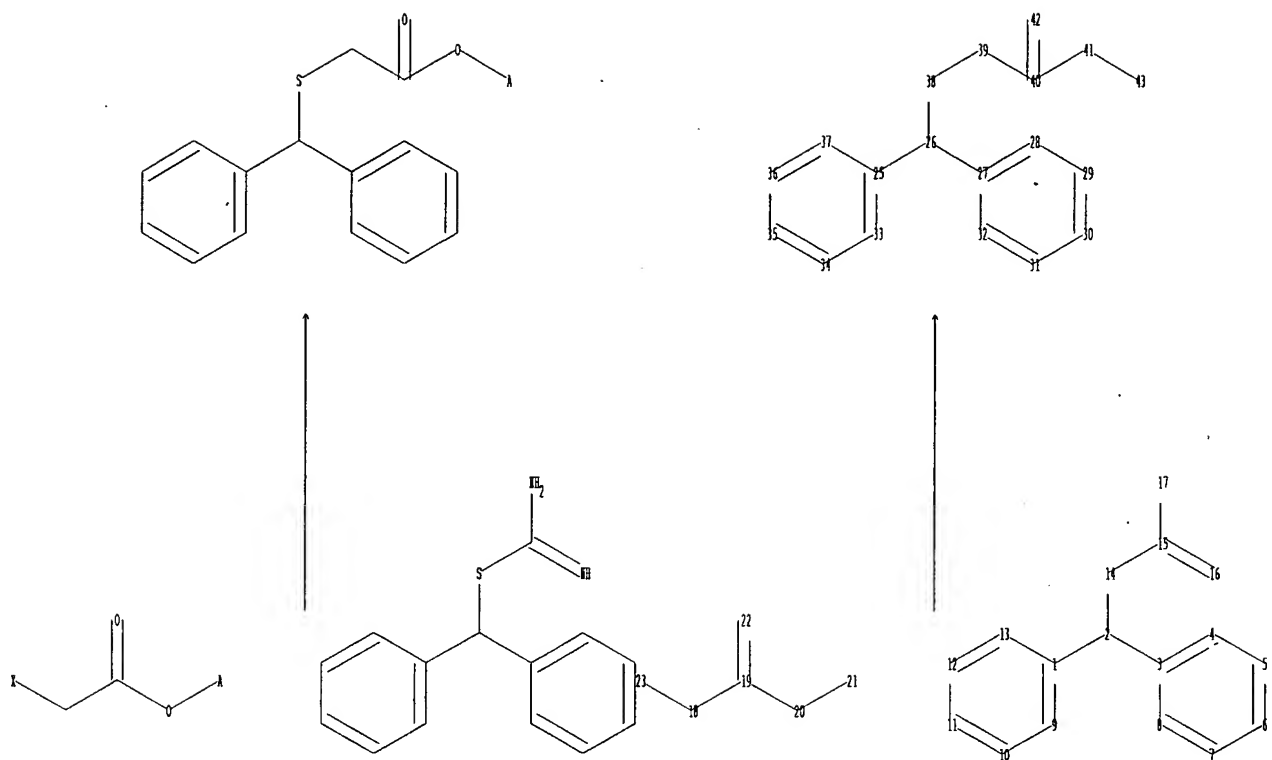
Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10570243\10570243 key reaction.str





chain nodes :  
 2 14 15 16 17 18 19 20 21 22 23 26 38 39 40 41 42 43  
 ring nodes :  
 1 3 4 5 6 7 8 9 10 11 12 13 25 27 28 29 30 31 32 33 34 35 36  
 37  
 chain bonds :  
 1-2 2-3 2-14 14-15 15-16 15-17 18-19 18-23 19-20 19-22 20-21 25-26  
 26-27 26-38 38-39 39-40 40-41 40-42 41-43  
 ring bonds :  
 1-9 1-13 3-4 3-8 4-5 5-6 6-7 7-8 9-10 10-11 11-12 12-13 25-33 25-37  
 27-28 27-32 28-29 29-30 30-31 31-32 33-34 34-35 35-36 36-37  
 exact/norm bonds :  
 2-14 14-15 15-16 15-17 19-20 19-22 20-21 26-38 38-39 40-41 40-42 41-43  
 exact bonds :  
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 normalized bonds :  
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 27-28 27-32 28-29 29-30 30-31 31-32 33-34 34-35 35-36 36-37

Hydrogen count :

2:>= minimum 1 18:>= minimum 2 26:>= minimum 1 39:>= minimum 2

Match level :

1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 25:Atom 26:CLASS 27:Atom  
 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom  
 37:Atom 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS

fragments assigned product role:  
containing 25  
fragments assigned reactant/reagent role:  
containing 1  
containing 18

L13        STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS

L13                STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -    AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> search l13 sss sam

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100.0% DONE                0 VERIFIED                0 HIT RXNS                0 DOCS

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FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*

BATCH    \*\*COMPLETE\*\*

PROJECTED VERIFICATIONS:                0 TO                0

PROJECTED ANSWERS:                0 TO                0

L14                0 SEA SSS SAM L13 (                0 REACTIONS)

=> search l13 sss full

FULL SEARCH INITIATED 13:25:09 FILE 'CASREACT'

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CA SUBSCRIBER PRICE	0.00	-3.90
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SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:26:21 ON 12 DEC 2007

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